Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: BISMARK

Article number: not applicable
Registration number REACH Not applicable.
UFI: YMSH-Y0VQ-YC0U-94VP
1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant use: Agriculture.
Herbicide
Agrochemicals formulation.
Product category PC27 Plant protection products
Application of the substance / the mixture
Plant protection product
Agricultural chemicals

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
SIPCAM OXON S.p.A.

Registered office: Via Carroccio, 8 - 20123 Milano, Italia
Management: Via Sempione,195 - 20016 Pero (MI), Italia
Production site: Via Vittorio Veneto, 81 - 26857 Salerano s. Lambro (LO), Italia

Tel.: +39 0371 5961 (8:00 - 17:00 GMT+1)
Website: www.sipcam-oxon.com
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1.4 Emergency telephone number:
Emergency phone: +39 02 353781 (8.00-17.00 GMT+1)
For any questions regarding this MSDS please contact:
msds@sipcam.com
Refer to section 16 for Poison Centres.
CENTRE ANTIPOISONS BELGE/BELGISCH ANTIGIFCENTRUM/BELGISCHE GIFTNOTRUFZENTRALE
+32 070 245 245
https://www.centreantipoisons.be/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
2.1.1 Classification according to Regulation (EC) No 1272/2008

GHS08 health hazard

Repr. 2 H361d Suspected of damaging the unborn child.

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.
Hazard pictograms

GHS05 GHS08 GHS09

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Signal word Danger

Hazard-determining components of labelling:
Calcium Ammonium Nitrate
pendimethalin (ISO)
Hazard statements
H318 Causes serious eye damage.
H361d Suspected of damaging the unborn child.
H410 Very toxic to aquatic life with long lasting effects.
Precautionary statements
P263 Avoid contact during pregnancy and while nursing.
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P391 Collect spillage.
Additional information:
SP1 Do not contaminate water with the product or its container.
EUH208 Contains 1,2-benzisothiazol-3(2H)-one. May produce an allergic reaction.
EUH401 To avoid risks to human health and the environment, comply with the instructions for use.
2.3 Other hazards
Results of PBT and vPvB assessment
PBT: The mixture does not contain any PBT substances.
vPvB: The mixture does not contain any vPvB substances.
Determination of endocrine-disrupting properties
The substance/mixture does not contain components considered to have endocrine disrupting properties in accordance with Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures
Description: Mixture of the substances listed below with harmless additions:

Dangerous components:

N° CAS	Designation	R-Phrases	%
CAS: 40487-42-1 EINECS: 254-938-2 Index number: 609-042-00-X	pendimethalin (ISO) Repr. 2, H361d; Aquatic Acute 1, H400 (M=100); Aquatic Chronic 1, H410 (M=10)		25-50%
CAS: 15245-12-2 EINECS: 239-289-5 Reg.nr.: 01-2119493947-16	Calcium Ammonium Nitrate Eye Dam. 1, H318; Acute Tox. 4, H302		≥3-≤10%
CAS: 81777-89-1 EC number: 617-258-0 Index number: 613-340-00-5	Clomazone Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Acute Tox. 4, H332 ATE: LD50 oral: 768 mg/kg LC50 (4 h) inhalative: 4.85 mg/L		2.5-10%
CAS: 64742-94-5 EC number: 922-153-0 Reg.nr.: 01-2119451097-39-xxxx	Aromatic hydrocarbons C10-C13, naphtalene <1% Asp. Tox. 1, H304; Aquatic Chronic 2, H411		2.5-10%
CAS: 68512-34-5 EC number: 614-547-3	Lignosulfonic acid, sodium salt, sulfomethylated Eye Irrit. 2, H319		<2.5%
CAS: 2634-33-5 EINECS: 220-120-9 Index number: 613-088-00-6 Reg.nr.: 01-2120761540-60-xxxx	1,2-benzisothiazol-3(2H)-one Acute Tox. 2, H330; Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317 ATE: LD50 oral: 450 mg/kg Specific concentration limit: Skin Sens. 1A; H317: C ≥ 0.036 %		<0.025%

Additional information
Factor M=1, unless otherwise stated.
For the wording of the listed hazard phrases refer to section 16.

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Trade name: BISMARK

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SECTION 4: First aid measures

4.1 Description of first aid measures
General information
Instantly remove any clothing soiled by the product.
Personal protection for the First Aider.
After inhalation
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.
In case of unconsciousness bring patient into stable side position for transport.
After skin contact Instantly wash with water and soap and rinse thoroughly.
After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
After swallowing
Call a doctor immediately.
Rinse out mouth without swallowing, do not induce vomiting.
4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
4.3 Indication of any immediate medical attention and special treatment needed
Seek the advice of a Poison Control Centre
Treat symptomatically and supportively

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents
CO2, extinguishing powder. Fight larger fires with water spray or alcohol-resistant foam. Do not use a direct stream of water to extinguish.
Use fire fighting measures that suit the environment.
For safety reasons unsuitable extinguishing agents
Avoid full water jet.
None.
5.2 Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.
Nitrogen oxides (NOx)
Carbon monoxide (CO)
5.3 Advice for firefighters
Protective equipment:
Do not inhale explosion gases or combustion gases.
Wear protective clothing conforming to European Standard EN 469.
Additional information
Cool endangered containers with water spray jet.
Collect contaminated fire fighting water separately. It must not enter drains.
Do not allow extinguishing media and spilled material to enter drains or water courses.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation
Keep away from ignition sources
Wear protective equipment. In case of inadequate ventilation, wear protective mask (brown filter). Keep unprotected persons away.
Keep people at a distance and stay on the windward side.
Wear protective clothing.
6.1.1. For non-emergency personnel
wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
remove ignition sources, provide sufficient ventilation, control dust;
apply emergency procedures, evacuate the danger area or consult an expert.
6.1.2. For emergency responders
wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing;
In case of dust provide inalation protection
Wear protective clothing, boots and glasses
6.2 Environmental precautions:
Inform respective authorities in case product reaches water or sewage system.

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Do not allow to enter drainage system, surface or ground water.
Prevent from spreading (e.g. by damming-in or oil barriers).
Collect with suitable equipment and do not allow to enter drainage system, surface or ground water.

6.3 Methods and material for containment and cleaning up:
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralising agent.
Dispose of contaminated material as waste according to Section 13.

6.4 Reference to other sections
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Avoid splashes or spray in enclosed areas.
Wear personal protective equipments (PPE).
The usual precautionary measures for handling chemicals shall be observed.
Information about protection against explosions and fires:
The product is not flammable
Keep ignition sources away - Do not smoke.

Handling
Avoid contact with the skin and vapour inhalation; do not eat, drink nor smoke while working.
Avoid direct or indirect contact with the product. Do not eat, drink or smoke while working.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Store in a cool and ventilated place, away from heat source and direct sunlight without open sewage system.
Keep out the reach of children, unauthorized persons and animals. Keep away from food, drink and animal feedingstuffs.
Requirements to be met by storerooms and containers: Store only in the original container.
Information about storage in one common storage facility:
Prevent storage with uncompatible materials (see chapter 10).
Store away from foodstuffs.
Further information about storage conditions:
Keep container tightly sealed.
Store in cool, dry conditions in well sealed containers.
Storage class 12
7.3 Specific end use(s)
Agriculture
To be applied strictly for the uses described in the label.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Components with limit values that require monitoring at the workplace:
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs		
CAS: 15245-12-2 Calcium Ammonium Nitrate		
Oral	DNEL Short-term	10 mg/kg bw/day (consumers) Systemic effects
CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%		
Oral	DNEL Long-term	7.5 mg/kg bw/day (consumers) systemic effects
Dermal	DNEL Long-term	12.5 mg/kg bw/day (workers) systemic effects
		7.5 mg/kg bw/day (consumers) systemic effects

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Inhalative	DNEL Long-term	151 mg/m³ (workers) systemic effects 32 mg/m³ (consumers) systemic effects

PNECs	
CAS: 15245-12-2 Calcium Ammonium Nitrate	
PNEC	18 mg/L (sewage treatment plant)

Additional information: The lists that were valid during the compilation were used as basis.

8.2 Exposure controls
Appropriate engineering controls Eye wash stations shall be available in the work area.
Individual protection measures, such as personal protective equipment
General protective and hygienic measures
The usual precautionary measures for handling chemicals shall be observed.
Keep away from foodstuffs, beverages and food.
Take off immediately all contaminated clothing
Wash hands during breaks and at the end of the work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
Pregnant women must strictly avoid inhalation or contact with the skin.
Do not eat, drink or smoke while working.
Breathing equipment:

Breathing protection recommended in accordance with the relevant European Standards.

Hand protection
Protective gloves (rubber or plastic).

Protective gloves against chemicals and micro-organisms in accordance with EN 374

Material of gloves Nitrile rubber, NBR
Eye/face protection

Tightly sealed safety glasses in accordance with EN 166.

Body protection: Protective work clothing.
Boots Safety footwear for professional use in accordance with EN 345.
Environmental exposure controls
Waste waters from equipment cleaning shall be disposed according to local and national regulation.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties
General Information

Physical state	Liquid
Colour:	Dark orange
Odour:	Aromatic
Melting point/freezing point:	Not applicable
Boiling point or initial boiling point and boiling range	Not determined
Flammability	Not applicable because the product is liquid
Lower and upper explosion limit	
Lower:	Not explosive Method EU A.14
Upper:	Not determined. Method EU A.14
Flash point:	no flash point up to 140 °C.
Auto-ignition temperature:	292.55±9.83 °C (EU A.15)

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Decomposition temperature:	Not determined.
pH at 20 °C	6.56 (CIPAC MT 75.3)
pH value	
(1% in distilled water) at 20 °C	7.84 (CIPAC MT 75.3)
pH (undiluited sample)	
Viscosity:	
Kinematic viscosity	258.41 mm²/s (Calculated)
dynamic at 20 °C:	350.7 - 530.7 cPs (20 - 50 rpm; OECD 114)
Solubility	
Water:	Dispersible
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure:	Not determined.
Density and/or relative density	
Relative density at 20 °C	1.13 g/ml (OECD 109; EU A.3)
Vapour density	Not determined.

9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting. Method EU A.15
Explosive properties:	Product is not explosive. Method EU A.14
Change in condition	
Softening point/range	
Oxidising properties	Not an oxidiser According to theoretical considerations based on chemical structure, the product does not possess explosive properties
Evaporation rate	Not determined.

Information with regard to physical hazard classes	
Explosives	The product is not explosive. Method EU A.14
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	The product is not flammable as it does not contain flammable solvents.
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Product is not autoflammable. Method EU A.15
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	The product is non-oxidising as it contains no oxidising solvents
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity The product is not reactive under recommended handling conditions.
10.2 Chemical stability Stable under the recommended handling and storage conditions (see section 7).
Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications.
10.3 Possibility of hazardous reactions No dangerous reactions are known.
10.4 Conditions to avoid No further relevant information available.
10.5 Incompatible materials: No further relevant information available.

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10.6 Hazardous decomposition products: None in standard storage conditions.

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SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
Inhalative	LC50 (4 h)	>1.1 mg/L (rat) (OECD 403)

CAS: 40487-42-1 pendimethalin (ISO)		
Oral	LD50	4,665 mg/kg (rat) (OECD 401)
Dermal	LD50	>5,000 mg/kg (rat) (OECD 402)
CAS: 15245-12-2 Calcium Ammonium Nitrate		
Oral	LD50	500 mg/kg (rat) (OECD 423)
Dermal	LD50	2,000-5,000 mg/kg (rat) (OECD 402)
CAS: 81777-89-1 Clomazone		
Oral	LD50	768 mg/kg (ATE)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 (4 h)	4.85 mg/L (ATE)
CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%		
Oral	LD50	6,318 mg/kg (rat) (OECD 401) 5,558 mg/kg (rat female) (OECD 401) 7,093 mg/kg (rat male) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50 (4 h)	>4,688 mg/L (rat) (OECD 403)
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated		
Oral	LD50	<10,000 mg/kg (rat)
Inhalative	LC50 (4 h)	>480 mg/L (rat)
Dimethylpolysiloxane		
Oral	LD50	>2,000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.

Skin corrosion / irritation - Test		
Irritation of skin	Skin corrosion	(rabbit) (OECD 404)

CAS: 40487-42-1 pendimethalin (ISO)		
Irritation of skin	Skin corrosion	(rabbit) (OECD 404) not irritant
CAS: 81777-89-1 Clomazone		
Irritation of skin	Skin corrosion	(rabbit) Not irritant
CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%		
Irritation of skin	Skin corrosion	(rabbit) (OECD 404) Not irritating
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated		
Irritation of skin	Skin corrosion	(rabbit) Not irritant
Dimethylpolysiloxane		
Irritation of skin	Skin corrosion	(rabbit) repeated and prolonged contact may cause mild irritation

Serious eye damage/irritation Causes serious eye damage.

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Serious eye damage / Irritation - Test		
CAS: 40487-42-1 pendimethalin (ISO)		
Irritation of eyes	Eye Irritation	(rabbit) (OECD 405) not irritant
CAS: 81777-89-1 Clomazone		
Irritation of eyes	Eye Irritation	(rabbit) Not irritant
CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%		
Irritation of eyes	Eye Irritation	(rabbit) (OECD 405) Not irritating
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated		
Irritation of eyes	Eye Irritation	(rabbit) Irritant
Dimethylpolysiloxane		
Irritation of eyes	Eye Irritation	(rabbit) causes serious eye damages

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Sensitisation - Test	
Sensitization	(mice) (OECD 429 Mouse Local lymphnode assay)

CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%	
Sensitization	(guinea pig) (OECD 406) Not sensitizing
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated	
Sensitization	(guinea pig) Not sensitizing
Dimethylpolysiloxane	
Sensitization	(guinea pig) Not sensitizing - referred to one component of the mixture

Germ cell mutagenicity Based on available data, the classification criteria are not met.
Carcinogenicity Based on available data, the classification criteria are not met.
Reproductive toxicity Suspected of damaging the unborn child.
STOT-single exposure Based on available data, the classification criteria are not met.
STOT-repeated exposure Based on available data, the classification criteria are not met.
Aspiration hazard Based on available data, the classification criteria are not met.
Other information: For symptoms and effects see section 4.
Additional toxicological information:
Acute effects (acute toxicity, irritation and corrosivity) No further information available.
CMR effects (cancerogenity, mutagenicity and toxicity for reproduction)
The product is classified as suspected reprotoxic
11.2 Information on other hazards

Endocrine disrupting properties
None of the ingredients is listed.

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SECTION 12: Ecological information

12.1 Toxicity Very toxic to aquatic life with long lasting effects.

Aquatic toxicity:	
LC50 (96h)	>100 mg/L (rainbow trout (oncorhynchus mykiss))
EC50 (48h)	>100 mg/L (Daphnia magna)
ErC50 (72h)	2.82 mg/L (algae Pseudokirchneriella subcapitata)
EC50 (7d)	>100 mg/L (Lemna minor)
EC10	0.5 mg/L (Daphnia magna)

CAS: 40487-42-1 pendimethalin (ISO)	
EC50 (72h)	0.0337 mg/L (algae selenastrum capricornutum)
LC50 (96h)	0.89 mg/L (rainbow trout (oncorhynchus mykiss))

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EC50 (48h)	0.4 mg/L (Daphnia magna)
EC50	0.005 mg/L (algae) (5 d - Skeletonema costatum)
NOEC	0.0145 mg/L (Daphnia magna) (21 d)
	0.05 mg/L (rainbow trout (oncorhynchus mykiss)) (21 d)
CAS: 15245-12-2 Calcium Ammonium Nitrate	
EC50 (72h)	>100 mg/L (algae Pseudokirchneriella subcapitata) (OECD 201)
EC50 (48h)	>100 mg/L (Daphnia magna)
LC 50	447 mg/L (Cyprinus carpio) (48 h)
CAS: 81777-89-1 Clomazone	
LC50 (96h)	15.5 mg/L (rainbow trout (oncorhynchus mykiss))
EC50 (48h)	12.7 mg/L (Daphnia magna)
EC50	>185 mg/L (algae) (Navicula pelliculosa - 120 h - ErC50)
	>34 mg/L (lemna gibba) (14 d - ErC50)
CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%	
LC50 (96h)	0.46 mg/L (rainbow trout (oncorhynchus mykiss)) (EPA OPP 72-1 (Fish Acute Toxicity Test)) LL50 = 3.6 mg/l
EC50 (48h)	0.471 mg/L (Tetrahymena pyriformis)
	1.1 mg/L (Daphnia magna) (EPA OPP 72-2 (Aquatic Invertebrate Acute Tox.Test))
EbC50 (72h)	0.29 mg/L (algae Pseudokirchneriella subcapitata)
ErC50 (72h)	0.42 mg/L (algae Pseudokirchneriella subcapitata)
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated	
LC50 (96h)	615 mg/L (pimephales promelas)
EC50 (48h)	5.4 mg/L (Crassostrea gigas)
Dimethylpolysiloxane	
LC50 (96h)	>100 mg/L (fish) referred to one component of the mixture
	420 mg/L (rainbow trout (oncorhynchus mykiss))

Environmental toxicity		
CAS: 40487-42-1 pendimethalin (ISO)		
Oral	LD 50	1,421 mg/kg bw (Anas platyrhynchos)
	LD 50	49.8 µg/bee (bee (Apis mellifera))
CAS: 81777-89-1 Clomazone		
Oral	EC 50	2,510 mg/kg (Colinus virginianus)
	LD 50	>85.29 µg/bee (bee (Apis mellifera))
Dermal	LD 50	>100 µg/bee (bee (Apis mellifera))

12.2 Persistence and degradability

CAS: 64742-94-5 Aromatic hydrocarbons C10-C13, naphtalene <1%	
Biodegradation	70 % (28 d OECD 301F)

12.3 Bioaccumulative potential

CAS: 40487-42-1 pendimethalin (ISO)	
Octanol / Water partition coefficient	5.18
BCF - Bioconcentration factor	5,100
CAS: 81777-89-1 Clomazone	
Octanol / Water partition coefficient	2.54 (partition n-octanol/water) (23°C)
CAS: 68512-34-5 Lignosulfonic acid, sodium salt, sulfomethylated	
Octanol / Water partition coefficient	≤3.45

12.4 Mobility in soil No further relevant information available.
12.5 Results of PBT and vPvB assessment
PBT: None of the ingredients meets the classification requirements.
vPvB: None of the ingredients meets the classification requirements.
12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
12.7 Other adverse effects No further relevant information available.
Remark: Toxic for aquatic organisms.

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DT 50 (active ingredient)	
CAS: 40487-42-1 pendimethalin (ISO)	
DT 50	30-150 days (soil)
CAS: 81777-89-1 Clomazone	
DT 50	89 days (soil) moderate to persistent 52.5 days (water) slow degradation

Additional ecological information:
General notes:
Must not reach sewage water or drainage ditch undiluted or unneutralised.
Danger to drinking water if even small quantities leak into soil.
Also poisonous for fish and plankton in water bodies.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Uncleaned packagings: Dispose empty packagings according to current regulations.

SECTION 14: Transport information

14.1 UN number or ID number	
ADR/RID/ADN, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR/RID/ADN	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pendimethalin (ISO))
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pendimethalin (ISO)), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (pendimethalin (ISO))
14.3 Transport hazard class(es)	
ADR/RID/ADN	

Class	9 (M6) Miscellaneous dangerous substances and articles.
Label	9
IMDG, IATA	

Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group	
ADR/RID/ADN, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardous substances: pendimethalin (ISO)
Marine pollutant:	Yes Symbol (fish and tree)
Special marking (ADR/RID/ADN):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)

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14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:	90
EMS Number:	F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
Transport/Additional information:	
ADR/RID/ADN	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Transport category	3
Tunnel restriction code	E
Remarks:	Transport in Limited Quantities only in suitable packaging. ADR Special Provision 375 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
Remarks:	IMDG Code 2.10.2.7 may apply for UN 3077 in packagings of 5 kg or less and for UN3082 in packagings of 5 L or less.
IATA	
Remarks:	For UN 3077 in packagings of 5 kg or less and UN3082 in packagings of 5 L or less, Special Provision A197 may apply according to IATA Dangerous Goods Regulation.
UN "Model Regulation":	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PENDIMETHALIN (ISO)), 9, III

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulation (EC) n. 1907/2006
Regulation (EC) n. 1272/2008
Regulation (EC) n. 790/2009 and (EU) no. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011
Regulation (EU) n. 618/2012
Regulation (EU) n. 487/2013
Regulation (EU) n. 944/2013
Regulation (EU) n. 605/2014
Regulation (EU) n. 2015/1221
Regulation (EU) n. 2016/918
Regulation (EU) n. 2016/1179
Regulation (EU) n. 2017/776
Regulation (EU) n. 2018/669
Regulation (EU) n. 2018/521
Regulation (EU) n. 2018/1480
Regulation (EU) n. 2020/217
Regulation (EU) n. 2020/1182
Regulation (EU) n. 1107/2009
Regulation (EU) n. 2021/643
Regulation (EU) n. 2021/849
Regulation (EU) n. 2022/692
Regulation (EU) n. 2023/1434
Regulation (EU) n. 2022/1435
Regulation (EU) n. 2024/197

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Directive 2012/18/EU
Named dangerous substances - ANNEX I Not applicable
Seveso category E1 Hazardous to the Aquatic Environment
Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t
Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

CAS: 15245-12-2	Calcium Ammonium Nitrate

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.
This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point. Please see https://ec.europa.eu/home-affairs/sites/homeaffairs/files/what-we-do/policies/crisis-and-terrorism/explosives/explosives-precursors/docs/list_of_competent_authorities_and_national_contact_points_en.pdf.

Department issuing data specification sheet: Product safety department.
Contact:
Product safety department
SIPCAM OXON msds@sipcam.com
For Poison Centres in Europe see: https://poisoncentres.echa.europa.eu
Date of previous version:
13.09.2023
13.09.2023
Version number of previous version: 1
Abbreviations and acronyms:
EC 50: Effective concentration, 50 percent
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
ATE: Acute toxicity estimate values
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 2: Acute toxicity – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Skin Sens. 1A: Skin sensitisation – Category 1A
Repr. 2: Reproductive toxicity – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

print: 24.01.2025 *rev n°: 2 (replaces version 1)* *Revision date: 24.01.2025*

Trade name: BISMARK

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Sources
Document elaborated on the basis of the data required by the EC Regulation 1107/2009 (plant protection products) and in accordance with the EC Regulation 878/2020.
**** Data compared to the previous version altered.***
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13.09.2023